## In the Claims:

The following is a list of claims currently pending in this application and their current status. This listing of claims replaces all prior versions and listings in this application.

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1. (Original) A method of compensating for output error in a sigma delta circuit, 2 comprising:

receiving an input signal;

adding a first error voltage value, which is derived from an output 5 signal, to the input signal;

subtracting a second error value, which is derived from the adding of a first error voltage value, to the input signal from the input signal; and

outputting an output signal result from the sigma delta circuit.

2. (Currently amended) A sigma delta digital circuit configured to compensate for output error, comprising:

an input for receiving an input signal;

an output configured to output [a] an output signal;

a summation component configured to add a first error voltage value, which is derived from an output signal, to an incoming input signal; and

a subtraction component configured to subtract a second error voltage value, where the second error voltage value is derived from the adding of a first error voltage value to an incoming input signal.

- 3. (Original) A sigma delta digital circuit according to Claim 2, further comprising a filter configured to filter an input signal according to a filter function, wherein the filter generates noise that distorts the filtered input signal, wherein the distortion results in the first error value.
- 4. (Original) A sigma delta digital circuit according to Claim 2, further comprising a filter configured to filter an input signal according to a filter function, wherein the filter generates noise that distorts the filtered input signal, wherein the distortion results in the second error value.
- 5. (New) A circuit producing low-noise output from a sigma delta modulator (SDM), the circuit including:

an input,

a first connection point electrically coupled to the input,

a second connection point electrically coupled to the first connection point, a third connection point electrically coupled to the second connection point,

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an SDM electrically coupled to the third connection point,

an SDM output electrically coupled to the SDM,

a positive feedback loop from the third connection point to the first connection point, adding the positive feedback signal to the input signal; and

a negative feedback loop from the SDM output, after quatization, to the second connection point, subtracting the negative feedback signal from the signal at the second connection point.

- 6. (New) The circuit of claim 5, further including a filter having a gain of less than unity position in the positive feedback loop, between the first and third connection points.
- 7. (New) A method of producing low-noise output from a sigma delta modulator (SDM) loop, including:

providing positive feedback to the input from a point within the SDM loop, the point taken between a differencing element that combines negative feedback from a quantizer with the input and a filter element.

- 8. (New) The method of claim 7, further including filtering the positive feedback before combining it with the input, with a filtering gain of less than unity.
- 9. (New) The method of claim 8, wherein the filtering gain is greater than or equal to 0.99.
- 10. (New) The method of claim 8, wherein the filtering gain is greater than or equal to 0.999.
- 11. (New) The method of claim 8, wherein the filtering is implemented using a filter having a single real pole.